

Overview

This document guides the process of installing Hollywood Electrics' cockpit and fairing on a Zero S, DS, SR, or DSR model for years 2014-2018.

Because this process is relatively complicated, with some focused parts requiring patience and skill, we recommend installation by your dealership:

- Modifications to the Zero tank plastics to join them to the fairing require special tools for installing heat set inserts
- The process of mating the fairing to the tank plastics can require patience to arrange a minimal amount of strain and correct alignment.
- Helpful but not critical: familiarity with working with Zero's 12V wiring, in addition to having the right tools for general motorcycle frontend work.

Parts

Fairing

- Fiberglass Fairing!
 - (Optional) painted.
 - (Optional) pre-drilled holes.



Brackets

- Left & Right Upper Fairing Stays
- Fairing U-Bracket
- T-shaped Lower Bracket With inset nylon spacer
- Main Fairing Bracket



Accessories

- Rox Risers (setback style) for handlebar clearance
- Flush mount turn signals
- (Optional) Zero Gravity windscreen fitted for a 2015 Yamaha R1
- (Optional) Mirrors
- (Optional) Mirror block-off plates

Fasteners



- | | | |
|------------------------------|------------------------------------|---------------------------------------|
| 1. 2 M6x15 socket head bolts | 8. 4 M4 heat-set inserts | 15. 2 M6 lock nuts |
| 2. 2 M6 washers | 9. 2 short M4 threaded rods | 16. 4 M5 short button head bolts |
| 3. 2 M6 lock nuts | 10. 2 long M4 threaded rods | 17. 2 M5 long button head bolts |
| 4. 4 rubber grommets | 11. 4 M4 washers | 18. 10 M5 washers |
| 5. 4 aluminum spacers | 12. 4 M4 lock nuts | 19. 10 M5 lock nuts |
| 6. 2 short nylon spacers | 13. 2 socket cap M6 shoulder bolts | 20. 1 long bolt and expandable anchor |
| 7. 2 long nylon spacers | 14. 2 M6 washers | 21. 1 steel spacer |
| | | 22. 1 large washer |

Tools

- Allen keys: 3mm, 4mm, 4.5mm, 5mm, and 6mm
- Socket wrenches: (sizes 7mm, 8mm, 10mm deep for the instrument cluster)
- 41mm hex socket (for the steering head nut)
- Soldering iron with heat-set installation tip (McMaster-Carr [#92160A123](#))
 - (Optional) substitute with #8x1-1/2" Screw
- A small side socket wrench for tank removal
- Drill with 13/64" or 5mm sized bit

Procedure

- [Setup](#) removes the bike's parts that will be repositioned and reinstalled.
- [Cockpit Assembly](#) attaches all the bracket components and snugly hangs them together to arrange the overall positioning before making it rigid.
- [Fairing Installation](#) joins the fiberglass fairing around the front of the cockpit, pulling it tightly and seamlessly against the tank plastics.

Setup

1. Remove the Seat
2. Remove Tank Assembly
3. Remove Headlight
4. Raise the bike on a centerstand
(Remove load from the Front Forks and Triple Clamps)
5. Remove the handlebars using a 6mm socket to loosen the clamp bolts
6. Remove the steering stem nut with the 41mm hex socket
7. Loosen the 6mm Allen head bolts around the top triple clamp and remove it
8. Remove the instrument cluster by removing the nuts with a 10mm deep socket on the bolts below it
9. Remove the left and right Headlight Mounts (note the Ground wire on the left side mount)
10. Remove the Turn Signals from the Headlight Mounts
11. Remove the Lower Headlight Bracket
12. Remove the Upper Triple Clamp
13. Remove the Ignition; for the underside safety screws, use an extractor or notch them
14. Remove the cable management bracket around the ignition cylinder that anchors some wiring clips via its two bolts



15. Reinstall ignition using provided M8 Bolts
16. Reinstall the Upper Triple Clamp
17. Install the Rox Risers and reinstall the handlebars

Cockpit Assembly

1. Fasten the Main Fairing Bracket and U bracket around the steering head.



- Place the Main Fairing Bracket against the front of the steering head
The smaller flat face will sit against the steering head
The side tabs will be on the upper end and extend forward
 - Align the tab on the “neck” against the bottom of the steering lock boss
 - Place the U bracket around the steering head just below the top triple clamp
The flat side will face upward against the top triple clamp
Match the upper bolt holes in the Main Fairing Bracket
 - Two M6 bolts with 5mm Allen socket heads go through the back U-Bracket, one on each side
 - Thread the washer and nylon locknut on the front side
 - Turn in the locknuts until snug but do not tighten
 - Run all the wires that were behind the headlight from the left side of the bike to right under the Main Fairing Bracket’s center body
2. Attach the plastic shoulder pieces of the headlamp assembly to the Main Fairing Bracket with the original 3mm Allen key bolts and the provided washer and locknuts (one per

piece on the top and then the side).



- Make snug but do not tighten.
3. Attach the Instrument Cluster to the Headlight Mounts.
 - Thread and tighten the nuts fastening the instrument cluster.
 4. Tighten the Instrument Cluster mounting in a center-outward direction:
 - Tighten the Instrument Cluster fasteners.
 - Tighten the Headlight Mounts via the top bolts.
 - Tighten the Headlight Mounts to the Main Fairing Bracket via the side bolts.
 5. Attach the Left & Right Upper Fairing Stays with the provided four short M5 screws, washers and locknuts using a 3mm Allen Key and 8mm wrench. Insert the provided shoulder bolts through the inside of the original Turn Signal holes and install the provided washer and M6 locknut.



- Tighten the shoulder bolts and then the M5 screws.

6. Assemble the T-shaped bracket with its fasteners:



- Assemble the washer onto the bolt, followed by the steel spacer through the nylon spacer, with the shoulder of the nylon spacer facing the head of the bolt and finally the expandable anchor.
- Apply blue thread-locker and thread the bolt into the expandable anchor, just until engaged.

7. Insert the expandable anchor into the underside hole of the steering head.

- With the 4.5mm Allen key, thread the bolt into the expandable anchor and tighten it against the steering head tube.
- The T-shaped bracket should move independent of the Triple Clamps.



8. Insert the stock headlamp lower bracket between the top of the T-bracket and the lower mount of the main bracket.



9. Insert the longer M5 bolts through the the underside.

- Aligning the holes may require force.

10. Install washers and thread the M5 nylon locknuts from the top until tight.

11. Take the headlight and running light wiring and run it into the main bracket's center block from the right side and then out through its front hole.

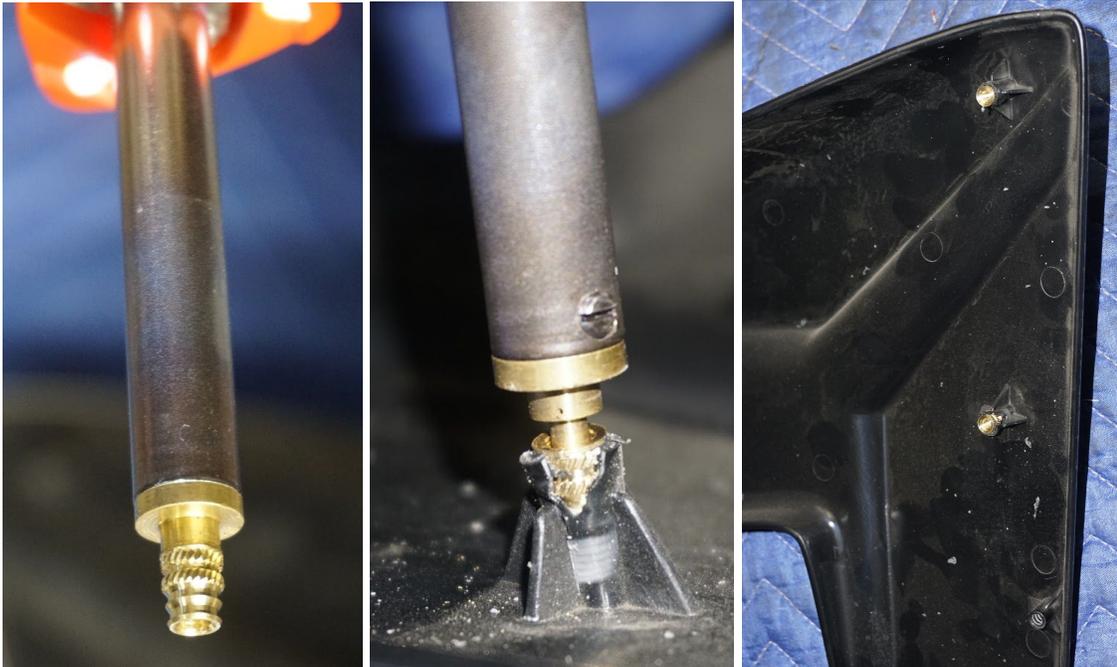
12. Arrange the wiring

- Take the cable runs from each side of the handlebars and run them down on their respective sides of the main bracket and connect them into the wiring in its lower area
 - Run the turn signal wiring through the lowest forward hole of the main fairing bracket
 - Fasten the wiring by looping zip-ties through the narrow slots on each side of the main fairing bracket's center body. Capture the plastic connectors with the zip-ties
 - Turn the steering through its full angle to each stop
 - Ensure that no wires are pinched, strained, or compressed.
 - Run the grounding wire to the left clamp of the top triple clamp and re-attach it with a 3mm Allen key using original lower mount hardware
13. Install the headlamp onto the cockpit bracketing
- Bring the headlamp to the front of the fairing bracket
 - Attach the headlight and running lamp wires
 - Then place the headlight snugly into the shoulder and lower bracket area
 - Fasten the headlamp at the upper corners with a 3mm Allen key until tight.
 - Lift the front of the lower bracket to fasten the headlight via its lower corners with a 4mm Allen key and tighten.

Fairing Installation

1. Install the windscreen onto the fairing
 - Insert the windscreen well nuts fully into the windscreen holes
 - Align the windscreen under its opening in the fairing
 - Use the 4mm Allen key on the M5 button head bolts with the nylon washers between the bolt head and the fairing fiberglass
 - Tighten each until snug, then once all are snug, tighten each to ensure the well nut grabs the windscreen from underneath

2. For the tank plastics, embed the heatset insert nuts so that the fairing can grab the tank plastics making a seamless edge:



- Take a 13/64" (or 5mm) drill bit and bore out a shallow hole in each of the upper two threaded holes on each side that help attach the front lower tank center plastics.
 - The depth should be at least 8mm to fit the collar nut but not all the way through.
 - Using the Heat Set Installation Tool, press the Heat Set Inserts into each bored hole to place it securely, flush with the plastic boss
 - The plastic will melt if done too slowly or at too high a temperature. Try not to deform the plastic and to keep original alignment
3. Install the tank plastics
 - Use a 3mm Allen key to fasten the rear around the frame centerpiece.
 - Use a 3mm Allen key to fasten the front top to the forward neck of the frame.
 4. Mate the tank plastics to the front lower tank center around the forks:
 - Align and fasten the original screws into the lowest pair of holes on each side.
 - By hand, install the 2 shorter threaded rods into the top holes on each side about three turns
 - By hand, fasten the 2 longer threaded rods into the middle pair on each side about three turns
 - Place the shorter nylon spacers around the top threaded rods
 - Place the longer nylon spacers around the middle threaded rods
 5. Mate the fiberglass fairing to the tank plastics:
 - Position the fairing over the fairing bracket and its attachments
 - The fairing should rest on the upper fairing stay and the face of the headlamp

- The fairings' sides should slide inside of the tank plastics faces' with some guidance
 - Align the holes with Rubber Grommets on the fairings with the Threaded Rods and nylon spacers
 - Insert the provided Aluminum Spacers around the Threaded Rods, into the Rubber Grommets on the Inner Fairing
 - Place the provided M4 Oversize Washer onto the Threaded Rods and tighten the M4 Locknut onto the Threaded Rods using a 7mm wrench
6. Bolt the Upper Fairing Stays to the fiberglass fairing using a 4mm allen key and 10mm socket.
 7. Install the windscreen using the provided wellnuts using a 4mm allen key.
 - Ensure that each fastener is snug but not very tight.

Fairing Removal and Reinstall

For the customer, troubleshooting issues in the front cockpit area should be easier with the improved layout of the wiring around the Main Fairing Bracket. However, should more access be required, removing the fairing can proceed as follows:

1. With a 4mm allen key and 10,, socket, unfasten the Upper Fairing Stays from the Fiberglass Fairing.
2. With a 7mm wrench, unfasten the two nuts on each side anchoring the Fiberglass Fairing rear tabs to the tank Plastics.
3. Gently press the rear tabs inward and slide the Fiberglass Fairing forward and off the cockpit assembly.

Reinstall is the reverse of this process. Really!